10/1/2018

Supplier Name	Metaux	Metaux Solutions	etaux	etaux	etaux	
Total	\$212.80 M	\$91.20 Metaux	\$530.40 Metaux Solutions	\$266.70 Metaux Solutions	\$1,046.40 Metaux Solutions	
Past Due			=			
Aging Days	n	г	e e	m	m	
Price/Unit	\$ 13.30 / sf	\$ 7.60 / ft	\$ 11.05 / ft	\$ 44.45 / R	\$ 10.90 / sf	
Receive Date	9/28/2018	9/28/2018	9/28/2018	9/28/2018	9/28/2018	
Status	Stock	Stock	Stock	Stock	Stock	
Container No	8115006	\$115007	8115008	\$115009	5114804	
Accounting Container Job No No						
Received Quantity	16	12	48	9	96	
Due Date	9/24/2018			9/28/2018		
Order	16.9	12	8	Ø	96	
Equipment Order ID Qty						
ject						
For Part Pro No						
Description	M1018S.250 : AISI 1010- 1025 OR ASTM A38/A366/A1008 OR CSA G40-21, AG40-21,	304 SS Roundbar 750: MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	6061-T6 Bar 1,00 X 2.00: MATERIAL: 6061- T6/T65/T765/0/T65/1/T62 ALUMINUM BAR PER QQ-A-225/6 OR AMS 4-225/6 OR AMS 4-17/4/128/4/15/4/16 OR QQ-A-200/8 OR AMS 4160 QQ-A-200/8 OR AMS 4160 A-200/8 OR AMS 4160 OR ASTIM B211 OR	6061T6 Bar 1.500 X 3.500 : MATERIAL: 6061- T6/T65/T765/10/T65/1/T62 ALUMINUM BAR PERQ- A-225/8 OR AMS 417/4128/415/4116 OR QQ-A-200/8 OR AMS 4200/8 OR AMS 4160 CQ-A-200/8 OR AMS 4160	6061-T6 .080 Sheet: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-2250/11 OR AMS-402-50/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	
Purchased Item	M1018S.250	M304R0.750	M6061T6B1.000X02.000 6061-T6 Bar 1.00 X 2.00 : MATERNAL: 6061- T6/T651/T6510/T651/T762 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-OR ASTM B211 receive ft ASTM B221 receive ft ASTM B221 receive ft	M6061T6B1.500X3.500	M6061T6S.080	
Rel Terms	Net 30					
e Rel	-	е	4	σ	o o	
Supplier Item No	-2002-					
PO No Sup	P0041051 MES002-					

1/2

10/1/2018

o No	Supplier	PO No Supplier Item No No	Terms	Terms Purchased Item	Description	For Part Pr	roject	roject Equipment Order ID Qty		Due Re Date Q	sceived /	Received Accounting Container Status Receive Price/Unit Aging Past Quantity Job No No	Container No	Status	Receive Date	Price/Unit	Aging Pa Days Du	st Total	Supplier Name
		10	_	M304B0.375X03.000	M304 SS bar .375 x 3.00 :				12		12		S115010	Stock	9/28/2018	Stock 9/28/2018 \$ 21.10 / ft	ю	\$253.	\$253.20 Metaux
					SS BAR OR AISI 304/316														Solutions
					SS PLATE AS PER ASTM														
					A276 OR ASTM A240													-	
					NOTE: AISI 303 NOT ACCEPTABLE receive ft													. 10.	
		1		M304R0.375	304 Round Bar 0.375 :				36		12		S115011	Stock	Stock 9/28/2018 \$ 2.75 / ft	\$ 2.75 / ft	8	\$33.	\$33.00 Metaux
					SS ROUND BAR AS PER														Solutions
					ASTM A276 NOTE: AISI														
3);					303 NOT ACCEPTABLE														
					receive ft														
		12	_	M303R0.750	303 Round Bar 0.750 :				12		12		\$115012	Stock	Stock 9/28/2018 \$ 7.86 / ft	\$ 7.86 / ft	3	\$94	\$94.32 Metaux
-					MATERIAL: AISI 303 SS														Solutions
					ROUND BAR AS PER														
					ASTM A582														
					NOTE:304/316 NOT														
					ACCEPTABLE receive ft														
								Total:	238		214							\$1 976 60	-

Plex 10/1/2018 3:46 PM dart. Tollis. Andrew



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO041051

Tel (613) 632-5200

Supplier: MES002-VC

Metaux Solutions

2625 boul Jacques-Cartiier Est

Longueuil

QC

Ship To:

J4N 1L7 Canada Phone: 800 558 8858 Fax: 514 633 8044

1270 Aberdeen Street

Hawkesbury

K6A 1K7 Canada Phone: 613-632-5200 PO No:

PO041051

PO Date:

9/18/18

Due Date:

9/24/18

Purchase Order Revision:

Revision Date: Ship-To Contact:

Phone:

....

Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: BID NO. 29032,29089, 29087

					Items							
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
YA		M1018S.250	HP14	M1018S.250 : AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W NO SCALE ON SHEET MINIMUM YIELD TENSILE STRENGTH= 28KSI MINIMUM ULIMATE TENSILE STRENGTH= 42KSI COLD ROLLED receive sf	Firmed	-	9/24/18	16 sf	0 sf 16s f		\$13.30/sf	\$212.80
2		MT-4140-S-0.750	MP3441H	AISI 4140 / 4142 Steel Sheet 0.750" : MATERIAL: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc AS PER ASTM A829, AMS 6395	Firmed	-	9/24/18	11.333 sf	0 sf	11 sf	\$113.65/sf	\$1,288.00
3/ A1		M304R0.750	SR344	304 SS Roundbar .750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	9/24/18	12 ft	0 ft 12 St	12 ft A	\$7.60/ft 1/8/10/01	\$91.20



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

Tel (613) 632-5200

PURCHASE ORDER PO041051

				Items							
Line Item	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
4 M	M6061T6B1.000X02.000	AF12	6061-T6 Bar 1.00 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		-	9/24/18	48 ft	0 ft		\$11.05/ft (8/(0/0)	\$530.40
5	Mt-4140-S-1.500X3.000	MP11241H	4140 Steel Bar 1.500 X 3.000 : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC receive ft	Firmed	-	9/24/18	4 ft	O ft	4 ft	\$49.30/ft	\$197.20
6	MT-4140-S-2.000X6.000	MP241H	4140 Steel Plate 2.000" X 6.000" : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC	Firmed		9/24/18	4 ft	0 ft	4 ft	\$126.15/ft	\$504.60
7	MT-4140-S-1.250X2.125		AISI 4140 / 4142 Steel Plate 1.250" X 2.125" : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC	Firmed	-	9/28/18	6 ft	0 ft	6 ft	\$30.45/ft	\$182.70
8 Al	M6061T6B1.500X3.500		6061T6 Bar 1,500 X 3,500 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	9/28/18	6 ft	Oft Cf+	6 ft At	\$44.45/ft 18/10/01	\$266.70

Plex 9/18/18 9:13 AM dart.lavoie.chantal



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO041051

Tel (613) 632-5200

					Items							
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
9 M		M6061T6S.080	AS08061	6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	9/28/18	96 sf	0 sf		\$10.90/sf	\$1,046.40
10 Ar		M304B0.375X03.000		M304 SS bar .375 x 3.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	_	9/28/18	12 ft	0 ft 12ft	12 ft	\$21.10/ft 8/10/01	\$253.20
11 Ar		M304R0.375	SR384	304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	9/28/18	36 ft	12.f+	36 ft 47 (6	\$2.75/ft 3/10/01	\$99.00
12		M303R0.750	SR343	303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	-	9/28/18	12 ft	0 ft 12 D4	12 ft	\$7.86/ft /B/10/01	\$94.32
13		M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	9/24/18	500 pcs	0 pcs	500 pcs	\$4.0521/pcs	\$2,026.05

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 9/18/18 9:13 AM dart.lavoie.chantal

Shipping Order

26/09/2018

METAUX SOLUTIONS INC 2625 BOUL JACQUES CARTIER EST

> DART AEROSPACE LTD 1270, ABERDEEN STREET

HAWKESBURY, ONTARIO

LONGUEUIL, QUEBEC J4N 1L7

Customer: 6323336

K6A 1K7

Tel.: 450 641-3330

Order

: 138217

Reference Bid

: 41051

Ship

: 29089 : PICK UP / PICK UP

Ship To

Same

Tel.: 1613632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
v	******* FACTURER E-MAIL ******** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N		29.200701	B/O QIY
	****** FACTURER E-MAIL ******* SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	****** FACTURER E-MAIL ******** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
HP14	MS PLATE 250	16	11	0
MDO44411	1 x 4' x 4' / ht 154894	, ,		
MP3441H	4140 HTSR TFA PLATE .750 THICK P.M 1 x 33.75" x 48" (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	368	<u> 368</u>	φ
SR344	304 ROU .750 DIA 1 X 12' R/L ******	12	12	
AF12	ALU FLA 1.000 X 2.000 6061-T6 4 X 12' ****	48	48	P
1P11241H	HT:73242 A 4140 HTSR PLATE 1.5" THICK (1 X 3" X 48" HT:94739)	68 _	68	φ
îP241H	4140 HTSR PLATE 2.035" THICK 1 X 6" X 48" HT 944960	174 _	174	P
1P11441H	4140 HTSR PLATE 1.250" THICK	63 _	63	P

*** Continued on Next Page ***

Shipping Order

26/09/2018

METAUX SOLUTIONS INC

Customer: 6323336

2625 BOUL JACQUES CARTIER EST

LONGUEUIL, QUEBEC

J4N 1L7

Tel.: 450 641-3330

Order Reference Bid : 138217

: 41051

Ship

: 29089 : PICK UP / PICK UP

Ship To

Same

Tel.: 1 613 632-3336

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO

K6A 1K7

Item No.	Description	Qty Qty. Deliver B/O Qty
	1 X 2.125" X 72"	
	HT,94492)	
AF112312	ALUM. FLAT 1.5 X 3.5 6061-T6	6 6 O
	1 X 72" *****	
	HT;200114141 M	
\S08061	ALU SHE .080 6061-T6 (12G)	96 F6 P
	2 X 4' X 12'	
	/ HT(427791) ₄	
SF3834	304 FLA .375 X 3.000	12 /2 0
	1 X 12' R/L	
	HTL5E7	
R384	304 ROU .375 DIA	12 12 9
	1 X 12' R/L	
	HT 1802AR4796	
R343	303 ROU 750 DIA	12 12
	1 X 12' R/L	7
	HT(819E) A7	
F14124HR	304 STAIN FLA .25" X .500" HR	520 <u>520</u> <u>P</u>
	40 X 13' R/L	,
	HT(67738108)	
	LIVRE NOTRE CAMION	
	JP	
	•	
	f.o.	
Page: 2		

Page: 2		
Shipping : Package No :	Ref. :	
Merchandise Received:		

306141 -Sold To/Vendu A-

-Ship To/Expedier A-COILEX - VARENNES 358 RUE JEAN COUTU, SUITE DOOR #1 VARENNES, QC. J3X 0E1 CORNER DE L'ENERGIE/JEAN COUTU

-Spec/Norm of Spec-PLATE-IN-COIL CONV. CSA G40.21-13 GR 50H (2013) STAINDARD THICKHESS TOLERANCE TEST REPORTS REQUIRED

-Material Description/Description du Materiai-PLATE-IN-COIL FOR CONVERSION STRUCTURAL STEEL COILS MILL EDGE PLAIN ORY .2360 MIN .2480 X 48 X COIL WEIGHT: 44710 LBS

HEIGHT: 44710 LBS
-Test Methods/Hethods d'EssaiASTM A370, E1019, E415

COULEE C Mn P 5 Si Cu Ni Cr Sn Mo Als Alt Cb V Ti Ca N B O 154894 .06 .03 .01 .002 .003 .07 .084 .016 .034 .036 .046 .084 .016 .002 .0039 .0002

MECHANICAL PROPERTIES/PROPRIETES MECANIQUES

SERIAL NUMBER LIFT # TEST WHITS KSI GAUGE LENGTH 2 INCH
NOMBRE DE SERIE FARDEAU RESISTANCE A LA RESISTANCE A L

(*) - Method of elongation calculation: at fracture. / Methode de calcul de l'allongement: au point de fracture.

ArcelorHittal Dofasco G.P. as per John Duric - CHYL Supervisor
The Results Relate Only To The Items Tosted
This Report Shall Not Be Reproduced Except In Full Without The Expressed Written Approval of The CHYL Supervisor.

This Contract Is Subject To The Terms And Conditions Of Sale Shown On The Order Acknowledgement.

Ce Contract est Sujet aux Termes et Conditions de Vente Indiques Sur l'Accuse de Reception de Commande.





DESIGN	DRAWN BY	DART AEROSP HAWKESBURY, ONTARI	
CHECKE	APPROVED	DRAWING NO. MICIO - S	REV A
DATE	.06.13	1010-1025 SHEET	SCALE NTS
A	01.06.13	NEW ISSUE	
AI	04.03.09	ADD ASTM A1008 AND GO	LD ROLLED

PURCHASE MATERIAL:

OR (CSA G40-21) 38W/44W (SOW) 60W/70W

MINIMUM YIELD TENSILE STRENGTH = 28 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 42 ksi

COLD ROLLED

PART NUMBER:

M1010-STTGA WHERE TT = GUAGE THICKNESS

EG. 16 GAUGE STEEL = M1010-S16 GA



MATERIAL: <u>M /0 / 8</u> DATE: <u>/8 / / 0 / 3</u>					Р	O / BATCH	NO.: <u>1</u> 0641	051/5115000
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:				_ TH _ SH	IICKNE	ESS RECEI BIZE ORDEF	RED: 0.250 VED: 0.240 RED: 4'x4 VED: 4'x4	8"
DESCRIPTION	NC (Che	eck			(COMMENT		
SURFACE DAMAGE	Y	N)					THE THE STREET	
CORRECT FINISH	80	Ň					10000 10000	
CORROSION	Y	N			•			
CORRECT GRAIN DIRECTION	(V)	N						
CORRECT MATERIAL PER M-DRAWING	EX	Ν	CSA	640=21	504	~		
CORRECT THICKNESS	(Y)	Z(***		14		
PHOTO REQUIRED								
CORRECT REF # TO LINK CERT	111:	154894						
CORRECT MATERIAL IDENTFICATION		Ν			3071.TC			
CORRECT M# ON THE MATERIAL	(8)	Ν				31		
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(X)	70000	37.885-2009-90.00211			2010	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	$(\hat{\mathbf{z}})$						
CUT SAMPLE PIECE						HARDNE	SS CHECK.	
	F			SULTS BEL		DUDA	DUDD	WEDGTED
TVDE OF MATERIAL	-		HRC	HRB		DUR A	DUR D	WEBSTER
TYPE OF MATERIAL SIZE OF TEST SAMPLE	1							
HARDNESS / DUROMETER READI	NG				+			
HANDINESS / BONOMETER READI		ctore	located in	the Quality C	ffice			
	<u>10</u>	sters	rocated n	Time addiniy o	moe			
QC 18 INSPECTION					Ē	ENGINEER	RING SIGNOF	F (if required)
INSPECTED BY:				SI	GNED	OFF BY:		
DATE: /8/10/0						DATE:		



11 TO

007080 003

Customer:

METALLURGICAL TEST

6870 Highway 42 East Gheat, KY 41045-9615 (502) 347-6000

REPORT

Sales Ton

1/15/2018 Steal: (304/304E Pinish: 3

Dates

Correction: ASTM A362/15 Frac A/E OK

Meat Treat Code: 44,769 RREARES:

MAS Order: IN 0257533 07

Noused Bar, Annealed, Cold Draw
UNE 18480/10463 NH 10206 3.1, ASTH A484/16
AASTH AZ76/17, AGTH A479/17, ASTH A182/166 CHEM CHEM
ANNE 1878/1, ASHE SA182/13 CHEM CHEX
ANNE 1878/1, ASHE 5647K, ANN 9647K, ANN 1878/125
ANNE 1878/16-ASHE HA193/13 CL 1 GR 38

DESCRIPTION:

Tour Order: 1016001

PRODUCT

IN USA FRUE FROM MEMCUNY AND LOW MELCING ALLOY COFFRICIALIZED 2011/65/EG.Helis. Ear-ladd-cc. No Wills Repair. Helito and Hips CONTLIES W/REGUINGERS OF DEAR 252,225-7009 BV DIRECTIVE

	Mark Pleces Compatty Code	906 144.00 0	Lab
Sino			
oter a		.7500	Marian and the second
d Dies			Charles
Strid			AMALYSIS
			~
oduct id	17		CHEMICAL
Produ	82203		の国国

of Unit) ES(Spain) Us(United States) ZA(South Africa) JP(Japan) Chemical Analysis per Agita A751/14a CR % CO % Mar % MO % H % MX % P % 18.10 .60 1.38 .310 .084 8.53 .030	
CHEMICAL ANALYSIS CARCOuntry of Marity E9(Spain) USG GALD	

	Balls As	
MECHANICAL PROPERTIES	Product Id 1 d 1 m .275 Dry or 1 mo. 1275 Dry	

104.16

.78.22

193.0

7

Technical Dept. Mgr.
on the results and the accuracy seuths relate only to the thems witten approval of MAS.
1388
NAS hareby certifies that the analysis on this certification is correct. Been of the bast methods used, the malerial meets the specifications stated. The tested and this report cannot be reproduced, except in its entirely, without
*

Dept. Mgr.

KRIS LARK

1/15/2018

SHEET 1 OF 1 SCALE NTS REV. B CP 09.07.15 AJS 08.03.03 BY DATE 204/316 ROUND BAR PORT ALTOSPACE IN COPPRENT STORE OF CONTROL OF C DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. SHEE B REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 08-020A DESCRIPTION MFG. APPR. APPROVED DE APPR. DATE 09.07.15 A NEW ISSUE DESIGN DRAWN CHECKED REV.

PURCHASE MATERIAL: AIS/S64/316 SS ROUND BAR (NOVE-AIS) 303 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A228

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M304R0.750 M304R D.DDD

U

<<u>®</u>

0

SPECIFICATION CONTROL DRAWING

MATERIAL: <u>M304</u> R DATE: <u>/8/10</u>	101	50		-		F	PO / BATC	H NO.: _	P004	1051/511500							
MATERIAL CERT REC'D: Ves				THICKNESS ORDERED: 0.750" THICKNESS RECEIVED: 0.750"													
QUANTITY INSPECTED: 12ft	QUANTITY INSPECTED: 12ft								SHEET SIZE ORDERED:								
QUANTITY REJECTED:				-	SH	EET S	SIZE RECE	IVED: _	_	****							
DESCRIPTION	(Ch	eck				(COMMEN	TS									
SURFACE DAMAGE		(W)															
CORRECT FINISH	_	N															
CORROSION		(N)															
CORRECT GRAIN DIRECTION	(8)	N				1.0											
CORRECT MATERIAL PER M-DRAWING	8	Ν	157	N	AJ	76											
CORRECT THICKNESS	(8)	N	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		7/5												
PHOTO REQUIRED	Y	(N)	200														
CORRECT REF # TO LINK CERT	(Y)	N	M:	644	1)												
CORRECT MATERIAL IDENTFICATION	(9)	N						10									
CORRECT M# ON THE MATERIAL	(Y)	N	8/2														
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	Q															
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(Z)	of 000x 5 846x														
CUT SAMPLE PIECE			ERIAL A				HARDNE	SS CH	ECK.								
		H	HRC	H	IRB		DUR A	DU	IR D	WEBSTER							
TYPE OF MATERIAL																	
SIZE OF TEST SAMPLE																	
HARDNESS / DUROMETER READII																	
	te:	sters	located in	the Qu	ality Of	<u>fice</u>											
QC 18 INSPECTION						E	NGINEER	RING S	IGNOF	F (if required)							
INSPECTED BY: Af			SIC	SNED	OFF BY:												
DATE: 18 MA							DATE:										
							DAIL.										



TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210 411CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

http://www.extrudex.com

MILL TEST

EXTRUDEX ORDER NO. MANIFEST NO. 221014 — 10 397777 MADE IN CANADA	ASTM B221-14 AMS QQA 200/8 Sepuricanson Samuel stnd shapes
DATE OF SHIPMENT SEP/12/2018 SALESMAN PETER BASHMAKOV	KZ" FLAT BAR
S735 CERTCODE: 9 1532 CUSTOMER PO C76056 CUSTOMER PART MUNBER P	State
SHIP TO SOBESCRIPTION 1"X2" FLAT BAR	Mechanical Properties

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper

Other

V ට

S

굆

8

之 。

M 0

Ga

0.025

0.036 Zu

0 Z

0.067 ŭ

0.897 S

0.101 뒨

0.223 0.211 đ a

0.645 izi

A.11

73242

Conductivity

Hardness

Percent Elongation

Yield Strength

Ultimate Tensile Strength (KSI)

Sep/10/2018

6061

A.11

Chemical Composition

Allox 6061

Cast Number Lot

Test Date

90.2, 89.6, 89.9 Rockwell F

15.70

(KSI) 41.80

. 0 Remainder

Plant Manager Grant Jardine

1 - CUSTOMER COPY

REV. B DS 01.06.08 8Y DATE CP 09.07.13 SHEET 1 OF DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
S DRAWING NO.

M6061T6B
SHEE B REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTW B211/B221 (ZN D7-1) Z 6061-T6 BAR CHECKED A JS MFG APPR. MAPROVED OB APPR. DATE 09.07.13 A NEW ISSUE DESIGN REV.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL (608) T6/T651/T6510 (6511) 762 ALUMINUM BAR

0

SPECIFICATION:

QQ-A-226/8 OR AMS-QQ-A-225/8 (QR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR-AMS-QQ-A-200/8 OR AMS 4160) OR ASTM B211 OR ASTM B221

PART NUMBER:

WHERE "T.TT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES M6061T6B T.TTT X WW.WWW THICK

E.G. 1.0" X 12.0" BAR = M6061T6B1,000X12.000

MATERIAL: <u>M 60617</u> DATE: 18/10/	76B	1.000	x2,000	-		PO/BATCH	NO.: <u>foo</u> 4	1051/\$11500	
MATERIAL CERT REC'D: Ves				_ ті	HIC	KNESS ORDE	RED: /- 080	:1	
QUANTITY RECEIVED: 4814				_ TH	HIC	KNESS RECEI	VED: 1-000	1	
QUANTITY INSPECTED: 488+	-			SH	HEE	T SIZE ORDE	RED: —		
QUANTITY REJECTED:				-		T SIZE RECEI			
	NO	CR	l .						
DESCRIPTION		eck	ĺ			COMMEN	TS		
3.000000000000000000000000000000000000		N)							
SURFACE DAMAGE		N				0.00			
CORRECT FINISH	Ø	N					***		
CORROSION	Y	N							
CORRECT GRAIN DIRECTION	8	N				100.0			
CORRECT MATERIAL PER M-DRAWING	V	N	AMS	QQA	20	0/8			
CORRECT THICKNESS	P	N		- 33/1					
PHOTO REQUIRED	Υ	D					1000		
CORRECT REF # TO LINK CERT	(Y)	N	U1:	73242					
CORRECT MATERIAL IDENTFICATION	(X)	N							
CORRECT M# ON THE MATERIAL	(Y)	N					*		
DOES THIS MATERIAL REQUIRE		_							
ENGINEERING SIGN OFF	Υ	(N)							
DOES THIS REQUIRE AN) (
EXTRUSION REPORT	Υ	N		-					
CUT SAMPLE PIECE				ND PREFO			SS CHECK.		
	—		HRC	HRB		DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL			,0		\dashv	20.17	DOND	**LDG1LIX	
SIZE OF TEST SAMPLE					\dashv				
HARDNESS / DUROMETER READIN	1G				\neg				
	<u>te</u>	sters	located in	the Quality O	ffic	e			
QC 18 INSPECTION						ENGINEER	ING SIGNOF	F (if required)	
INSPECTED BY:				SIGNED OFF BY:					
DATE: (8/10/01				DATE:					



CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: CUSTOM		CUSTOMER	PART NUMBER:	PRODUCT DESCRIPTIO	PRODUCT DESCRIPTION:							
5400388111-1 ALREC		ALRECO	0220	1,500 X 3,500 SC	1.500 X 3.500 SC RECT BAR							
KAISER ORDER NUMBER: LINE ITEM:			SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:						
6047900	001		02/27/2018	Z00114141	6061)	T6511						
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:						
15418.000 LB	208.000 F	PCS	621970			12.000 FT	i					
SHIP TO:				SOLD TO:		172.00011						

Actual Physical Properties

_	REFERENCE	DASH#	-SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG!	HAR	DNESS	CONDUCT.	BEND
	Z00114141	0001	0001	48.7	44.6	16.2	RE	93	N/A	N/A
	200114141	0001	0002	50.7	46.4	13.6	RE	92	N/A	N/A
	200114141	0001	0003	49.8	45.7	13.5	RE	91	N/A	N/A
	200114141	0001	0004	45.8	41.8	17.1	RE	93	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	MA	NA	NA	0.05	0.15
Minimum										NA	NA	0.00	0.00
108213	. 62	. 26	.24	.07	.86	.06	.03	.02	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on tile, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Dume of Macrowarie

Plant Serial: 00323823

Kaiser Order Number: 6047900

Line Item: 001

Page 1 of 1

REV. B SHEET 1 OF 1 09.07.13 01.06.08 COPYRIGHT © 2001 BY DART AEROSPACE LTD
THE DOCUMEN STRAINT MODERNITHE ON SHARKED OF RECOVERS DESCRIPTION
WAS IN WHITE ON HER MARKED ON SOME OF COMMANDERS THAN THE STREET WHITE OF COMMENCE OF COMMANDERS THAN THE STREET WHITE OF COMMENCE OF COMMENC DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
MG061T6B 3 SO B REMOVE QQ.4-250/11 OPTION, REFORMAT NOTES, ADO ASTM B211/B221 (ZN D7-1) 6061-T6 BAR DESCRIPTION MFG. APPR. MAPPROVED MAPPROVED DE APPR. DATE 09.07.13 A NEW ISSUE CHECKED DRAWN DESIGN REV.

SPECIFICATION CONTROL DRAWING

0

U

PART NUMBER:

M6061168 T.TTT X WW.WWW

WIDTH

THICK

(0)

00-A-225/8 OR AMS-00-A-225/8 (OR AMS 4117/4128/4115/4116) OR 00-A-200/8 OR AMS-00-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221)

PURCHASE MATERIAL 6061- 6/T651/T6510 T6511/T62 ALUMINUM BAR

SPECIFICATION:

E.G. 1.0" X 12.0" BAR = M6061T6B1,000X12.000 WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

0

MATERIAL:	176	BLS	<u>0</u> 0		PO / BATCH	NO.: <u>POOT</u>	1051/51150				
MATERIAL CERT REC'D: Yes				THICKNESS ORDERED: 1.5004							
QUANTITY RECEIVED: 65+				<u></u>	THIC	KNESS RECEI	VED: 1.50	011			
QUANTITY INSPECTED: 6 F+				-	SHE	ET SIZE ORDE	RED:				
QUANTITY REJECTED:				-		ET SIZE RECEI					
QUANTITI NESECTES.		100	1850 185	-	OHE	er olzercoel	VLD.				
											
DECODIDEION	- 230257	CR				001414515					
DESCRIPTION		eck				COMMEN	S				
011251.05.0111.05		N)									
SURFACE DAMAGE	Y (Ŷ)	(1)									
CORRECT FINISH CORROSION	Y	N (N)				3.					
CORRECT GRAIN DIRECTION	8	N									
CORRECT MATERIAL PER M-DRAWING	3	N	AS1M	B221							
CORRECT THICKNESS	V	N	713 11	0001							
PHOTO REQUIRED	Y	(N)									
CORRECT REF # TO LINK CERT	V	N	U1: 7	001141	11	40 - 40 - 40					
CORRECT MATERIAL IDENTFICATION	(Y)	N	711.					- 777			
CORRECT M# ON THE MATERIAL	(Y	N									
DOES THIS MATERIAL REQUIRE						100000000000000000000000000000000000000					
ENGINEERING SIGN OFF	Υ	M									
DOES THIS REQUIRE AN											
EXTRUSION REPORT	Υ	W									
OUT CAMPLE DIFOR	- 05		EEDIAL A	ND DD		MA A LIADDNIE	20 01 5014				
CUT SAMPLE PIECE							SS CHECK.				
	1		ORD RES	HR		DUR A	DUR D	T WEBSTER			
TYPE OF MATERIAL			iiito	1113		DOINA	DOND	WEBSTER			
SIZE OF TEST SAMPLE					(8))						
HARDNESS / DUROMETER READII	NG										
		sters	located in	the Quali	y Offi	ce					
QC 18 INSPECTION						ENGINEER	ING SIGNOF	F (if required)			
INSPECTED BY:					0:-	UED 0== =::					
INSPECTED BY:					SIG	NED OFF BY:					
DATE: 18/10/81						DATE:					

DP-08628-1 RIVERDALE, IA. DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722 GBB PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MRET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED T G041015423R19 Arconic Item 1001008628-1 Ship From: Arconic No. 0.08 VIN TK (+0.0000 -.0045) X 48.0 VIN W (+.125 - 125) X 144.0 VIN LN (+.1.5625 -.15625) CAT D 126901 (N) A/T (5061) COLONTED TO DESTRIBUTORS TOLERANCE GORANTEED. AM44027VREY N ANSIH35.2 REV 2017 BXC MRK ASWE-SB-((MARKED)) KRAFT PAPER EMPERIEAVED Inspector Clock Numbers Invoice No. Customer 47397 27908 MAX GROSS SKID WGT: 4750 LB QUAN TOL +/25 % CQR D126901 REV 47 CUST REQ 18-0601 *** W/R 18-09-01 *** P.O. No/Govt Contract No. 11843005 Total Aluminum B.L. No. REMAIN U10868 Ln#: 1 Other Other Each Total 0.15 2018-08-24 3580874 Ship Date Arconic MOD 2 PC οĘ Item Description Page We nateby certify that the material covered by this certificate has been inspected with, and has been sound to meet the applicable requirements described therein, including any specifications forming a part of the described therein including any specifications forming a part of the described mad that samples representative of the mechanical properties shown on the face of this sheet This test report shell not be reproduced except in full, without the written approved of the Quality Department. No absention, addition or other change is authorized to be made to this cartificate. The recording of state, fictious, or other was on this certificate by any neighbor may be purished as a felony under applicable law. Quantity The state of Terrence Thom Cusify Assurance Manager 75 Weight 3908 EL4D PCT 10 -Specification Limits 35.0 TYS 42.0 UTS Nandu Srinkasan Manufacturing Director - Davenport & Satetites Lot Max Notes for CQR: D126901.47 Package Ticket Chemical Composition S Named Long Transv. Long Transv. CQR: D126901.47 502629 Lot: 427791 Dir Alloy 6061 Dir Ship To: TMpr T6 Tmpr T6 Num

CERȚIFIED INSPECTION REPORT

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HOLLO	Ś	1	
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We breapy certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and there are presentative of the material met the composition limits and the mechanical properties shown on the face of this arriph.

This test report shall not be reproduced except in full without the written approval of the Quality Department. No situation statements or other change is authorized to be made to this cardidate. The recording of talse, iditions, or otherwise fraumphents or entries on this certificatio by any recipient may be punished as a fetbry under applicable law.

Nentu Sinivasan ufaduring Director - Davenport & Saleiffes S. Named

Terrence Thom Quality Assurance Manager

of 2

Page

427791

Lot;

Arconic

2018-08-24 3580874 Ship Date

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

RIVERDALE, IA. Arconic No. Invoice No. 00000 11843005 B.L. No.

Ship From:

DP-08628-1 GB8 Arconic Item 1001008628-1 Customer P.O. No./Govt Contract No. Ul0868 Ln#: 1

SAMUEL SON & CO LT G041015423R19

Cuantometer Results (cont.) -- (13.5) / 13.9 / 13.9 / 14.1 / 14.1 / 14.1 / 14.1 / 14.1 - Mechanical, Physical, Metallograpy, Qu 50 42.5 49.9 42.4 50 42.3 50 42.3 49.9 42.1 49.9 42.1 49.9 42.1 49.9 42.1 49.9 42.1 Cast Number H3250021

ZN / II / Other Each Other Total 0.02 0.04 < 0.05 < 0.15 FE / CU / MN / MG / CR / 0.4 0.28 0.05 1.0 0.15 SI < Chemical - OES Actuals

This material was melted in the United States or a Qualifying dountry [RBF DFARS 225.872.1(a)]; it was manufactured in the United States

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-TOT62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: 0

00-4-250/11 OR AMS-00-4-250/11 OR AMS 4025-OR 4027 OR (ASTM B209)

PART NUMBER:

0

M6061T6S XXX X W.WWW THK WIDTH

U

WHERE "XXX" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M606176S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M606176S.500X3.500

PREFERRED SIZE:

0

XXX BY 4FT BY 8FT FOR SHEET

17,12,13 01.06.08 09.07.13 DS DART AEROSPACE LTD
ML HAWKESBURY, ONTARIO, CANADA
NO DRAWMIS NO.
JFS M6061T6S SHEET 10
HS TILLE
SCA
CP 47 6061-T6 SHEET/PLATE SPEC N DATE d) ME RF REFORMAT DWG, ADD B209 SPEC (ZN D8-1). REF PAR 08-020A DESCRIPTION C ADD PLATE AND 1651 SPEC A NEW ISSUE DESIGN DRAWN æ REV.

CHECKED MFG. APPR. APPROVED DE APPR. APPROVED

REV. C SHEET 1 OF 1

COPYRIGHT © 2001 BY DART ARROSPACE LTD

COPYRIGHT OF CONTRACT STREAM CONTRACTOR OF CON

17.12.13

DATE

2018 MAR 13 40 Ex 18-655

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MATERIAL: <u>M600</u> DATE: 18/10	17	165.	.080	_		PO / BATCI	H NO.: <u>POS</u>	41051/5/14804		
MATERIAL CERT REC'D: Yes QUANTITY RECEIVED: 46sf QUANTITY INSPECTED: 96sf QUANTITY REJECTED:			7		THICKNESS ORDERED: 0.080" THICKNESS RECEIVED: 0.080" SHEET SIZE ORDERED: 4/x/2" SHEET SIZE RECEIVED: 4/x/2"					
DESCRIPTION	(CI	CR heck (/N)			1	COMMEN	TS			
SURFACE DAMAGE	Y	TIN								
CORRECT FINISH	K	N								
CORROSION	1	(A)								
CORRECT GRAIN DIRECTION	(Y)	Ň								
CORRECT MATERIAL PER M-DRAWING	(9)	N	A571	4 B209	-					
CORRECT THICKNESS	8	N	110.17							
PHOTO REQUIRED	Υ	N				W-1				
CORRECT REF # TO LINK CERT	8	N	117: 4	127791						
CORRECT MATERIAL IDENTFICATION	8	N		1/4/						
CORRECT M# ON THE MATERIAL	(Y)	N								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N								
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(1)								
							THE STATE OF THE S			
CUT SAMPLE PIECE							SS CHECK.			
	F			SULTS BE		V				
EVDE OF MATERIA			HRC	HRB		DUR A	DUR D	WEBSTER		
TYPE OF MATERIAL										
SIZE OF TEST SAMPLE										
HARDNESS / DUROMETER READII		L								
	<u>te</u>	esters	located in	the Quality	Offic	<u>e</u>				
QC 18 INSPECTION						ENGINEER	ING SIGNO	F (if required)		
INSPECTED BY:					SIGN	IED OFF BY:		i (ii required)		
DATE: (8/10/01					-					
DATE: (0/10/01						DATE:				

PHOENIX TUBE COMPANY, INC. Manufacturer of Stainless Ornamental and Structurel Tubing

CERTIFICATION OF TEST



I

SOLD TO:

SHIP TO:

CUSTOMER'S ORDER #: V82442

DATE SHIPPED: 8/22/2014

SEZE: 3" x 3/8" HRAP

SOURCE:USA D

VENDOR: NAS

. SPECIFICATION:

CHEMISTRY THIS COLUMN:

ASTM A278 18

ASME SA276-13 COND. A

ASTM A479-13

ASME SA479-13

QQ-3-783F, COND A

QQ-S-788D, COND. A

ASTM A282-13, PRACT/ E

CORROSION OK, HRAP

ASTM A484-13

ASME SA484-13

NO WELD REPAIR EN 10204 2.2

ASTM A240-13

ASME 8A240-13

MILS 5059D AMEND 3

AMS 5639H & AMS 5647J **ASTM A480-13**

ASME SA 480-13

OUR ORDER#: 136084

QTY 8HIPPED: 1135.00

GRADE: 3040

HEATH: LEET TEST REPORT#: TRO11081

WELD: BAR 5ET

DATE: 02/28/2014

TYPE 304U304 DUAL CERTIFIED

UN9#30400 / 30403

ASTM A888-10

AM85653H/AM85513J

NACE MR0175/01 / MR0103

MERCURY IS NOT USED BY US AS AN ALLOYING MATERIAL NOR IS MATALLIC MERCURY HANDLED IN THE VICINITY OF OUR PROCESSING LINES. WE ARE NOT PRESENTLY AWARE OF ANY MERCURY CONTAMINATION. MATERIAL HAS BEEN HEATED TO A MINIMUM OF 1900 DEG. F AND IS SUBSEQUENTLY COOLED RAPIDLY TO PREVENT CARBIDE PRECIPITATION

	7				CHEMI	CAL	ANAL	ANALYSIS					
Ç	MN	P	S	SI	CR	NI	MQ	ÇU	ÇQ	N2	п		
,017	1.74	.03	.001	.28	18.02	8.08	.33	.45			-		
							.00	.40	U	.08	1 0		

PHYSICAL.

	YIE	LD	TEN	SILE			
HARDNESS R8 86	PSI	MPA	PSI	МРА	PERCENT EL	PERCENT RA	
	52410	0	90740	0	62		

THE CHEMICAL ANALYSES ARE CORRECT AS CONTAINED IN OUR CORPORATE RECORDS. PHYSICAL PROPERTIES ARE DETERMINED WHILE MATERIAL IS IN STRIP FORM.

Meited & Mensfectured in the USA PAR BAA compilers, DFARS BAA compiler, FAR TAA compiler

1185 WIN DR. - BETHLEHEM, PA. 18017 - (610) 865-5337

Fax Number: 610-865-4073

Q.C. REVIEWED

INITIA

05 L E 11 3 E 0

υ	ADDED RELATE FROM 3	DLATE TO PURO D SPECIFICATION S04/316 BAR" TO	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10,11.25
83	REFORM	4AT DWG, ADD 3 08-020A	REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 08-020A	G _D	09.07.15
ď	NEW ISSUE	sue		Hd	05.08.10
REV.		0	DESCRIPTION	ВУ	DATE
DESIGN	7	Ē	DART AFROSPACE ITD	F	2
DRAWN	7	q	HAWKESBURY, ONTARIO, CANADA	CANAC	AC AC
CHECKED	ED	1 30	DRAWING NO.		REV. C
MFG. APPR.	PPR.	(14)	M304B		SHEET 1 OF 1
APPROVED	VED	1	TTLE		SCALE
DE APPR.	JR.	+	304/316 BAR/PLATE		NTS
DATE	10.1	10.11.25	COPYRIGHT @ 2005 BY DART AEROSPACE LTD THE COTMANY IS REPORTED BY THE COMPANY OF	DSPACE	LTD COMOTION THAT IT IS SERVICED AND SECTION

SPECIFICATION CONTROL DRAWING

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PART NUMBER:

PURCHASE MATERIAL: AIS1/309/316 SS BAR OR AIS1 304/316 SS PLATE (NOTE/AIS1 303 NOT ACCEPTABLE)

SPECIFICATION: (ASTM A276) OR ASTM A240

M304B T.TTT X WW.WWW THICK WIDTH

WHERE "T, TTT" = THICKNESS IN INCHES AND "WW. WWW." = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000 EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

U

MATERIAL:	30.375	¥03.000		PO / BATCH	no.: <u>РОочи</u>	051/81/5010		
MATERIAL CERT REC'D: /es QUANTITY RECEIVED: 125t QUANTITY INSPECTED: /25t QUANTITY REJECTED: //			THICKNESS ORDERED: 0.375" THICKNESS RECEIVED: 0.375" SHEET SIZE ORDERED:					
DESCRIPTION	NCR (Check Y/N)			COMMENT	rs			
SURFACE DAMAGE	YIW							
CORRECT FINISH	(V) N							
CORROSION	YW							
CORRECT GRAIN DIRECTION	(Y) N							
CORRECT MATERIAL PER M-DRAWING	(V) N	AMM	A276					
CORRECT THICKNESS	(Y) N	1177						
PHOTO REQUIRED	Y (N)							
CORRECT REF # TO LINK CERT	(Y) N	M1:7	5E7					
CORRECT MATERIAL IDENTFICATION	(Y) N							
CORRECT M# ON THE MATERIAL	(V) N							
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y							
DOES THIS REQUIRE AN								
EXTRUSION REPORT	Y (N)							
CUT SAMPLE PIECE			ND PREFOR		SS CHECK.			
		HRC	HRB	DURA	DUR D	WEBSTER		
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READIN								
	<u>testers</u>	located in	the Quality Off	<u>ice</u>				
QC 18 INSPECTION				ENGINEER	ING SIGNOF	F (if required)		
INSPECTED BY:			SIG	NED OFF BY:				
DATE: (8/10/0				DATE:				
DATE: (8//0/0	<u> </u>			DATE:				



MILL TEST CERTIFICATE (INSPECTION CERTIFICATE) In Accordance with EN 10204 :2004 Type 3.1

Handal Stainless (Hisar) Limited. Hot Rolling Division

CUSTOMER EXCEL STAINLESS I.C. CERTIFICATE NO. :JSHL-HRD/QA/2018-19/ER/00001055 CHY AVARRENVILLE IL ON NO :25.06 2018 :096-1-LP OA DATE: 16.03.2018 HEY WILLE :7061.601 BALES ORDER NO. 3500040216 80 DATE:16.03,2018 CONTINERCIAL INV. NO. :H20181980099 PROFORMA INVOICE NO. :6100024406 DATE:25.06.2018 Material Description/Product
STAINI ESS STEEL COLD FINISHED ROUND DAR Molectal Specifications
ASTM A270/A276M - 2017/ASME SA 276 SEC II PART A - 2017 Process-Route Dimension Tolerance specification EAF-AOD/YOD-LRF. As per OAPO Agreement CCS/INGOT 化可以间隔 SR BATCH NO PACKET WEIGHT HEAT NO NO GRADE DIASIZE NO NONE. FINISH QUALITY (Lbs) OF (Inch) LENGTH PCS 1805AR6199 1805AR6199 (inch) 1338.204 418 1805/1047 104L/304 0.313 1802AR4796 144.000 3 1802AR4796 CD PRIME 1210,336 265 1802/1105 (304)/304 0.375 1710AR4846 144 000 3 1710AR4846 CD PRIME 1199.313 262 171014384 3041/304 0.375 1710AR4847 144.000 CD 1710AR4847 PRIME 1170.653 256 171014384 3041/304 0.375 144.000 5 1805AR6532 1805AR6532 CD PRIME 1210.336 148 180531059 J04L/304 1804AR6949 0.500 144,000 CD 1804AR6949 PRIME 934.759 51 180451172 3041/304 0.750 144.000 CD PRIME 2-01-11-10-11 sn HEAT NO GRADE C% Mn% 5% F% 81% NI% NO. Cr% N% 110% Cu% 71% Nb/Cb% 1805110-17 3041/304 0.023 1.54 0.025 0.038 0.35 8.06 180231105 18.05 0.071 30417304 0.017 0.029 0.031 0.40 8.12 17(0)4384 18 03 0.082 3041/104 0.02 0.029 0.039 0.37 18.15 0.070 171014384 304L/304 0.021 1.61 0.029 0.039 0.37 8.02 1805/1059 3041/304 18.15 0.070 0.025 1.58 0.022 0.017 0.40 8.03 1804/1172 18.23 0.072 304L/304 0.021 1.55 0.025 0.037 0.36 8,05 18.09 0.070

Sr No.	Paritet/Beach Mo.	Inra	Rp 0.7/ YE kti	Rp 1,0 ksl	Rm/ TS ksi	NEL A3 lach	SAEL sare morts forth	Hardness	% RA	(1) Material solution minested in accordance with requirements as fall in ASTM A 484/A 424M ED 2018 / ASMESA 484/SA 484/SA 515 M SEC II PARTA-12 Tribbs 2 Annual Section 1
1	1805AR6199	0.313	76.144		103.26	45		226		Material totalian assessed at transpersature 1050°C minimum, Souking limo @ 1 minotoform and followed by water quenching.
2	1802AR4796	0.375	72.808		102.39	45		207		(4) Material alto Confirms to ASTM A 479-17, COND A(Chemically & mechanically
3	1710AR4846	0.375	71.358		103.12	45		219	- 1	ASTM A IR2-18 (Chemical only) (3) IOC set as per ASTM A 262 gractice (E) and after a spoduce the specimens uses bent
4	1710AR4847	0.375	71.358		103.12	45		219	- 1	(* 1, tay segme) and imprecied at magnification of 20% and found without any are at
3	1805AR6532	0 500	68,312		98.915	47		226	- 1	(4) Micro commination. Step structuress per ASTM A 262 prectice (A) (3) Onsia Size as per E112-2013 and comfions to ASTM No. 4 or Finer
6	1804AR6949	0.710	67.152	()	99.350	47		213	- 1	(6) No weld repair has been done on product.
									- 1	(7) Above mulerial confinns to requirements as per NACB hiR 0175 / ISQ: 15156-3: 2015 / MR 0101 / ISO: 17945: 2015
										(8) Dimension tolerances as per ASTAL A484/484N-18 (9) 100% bars were elected for PMI assing by XRP and found satisfactors

The material supplied under this Text Certificate in free from any relicocrities to kinded Statistics (Plant) Limited at part the recommendations pure itself by AERS

under FRISH column CD stands for COLD DRAWN MILL TEST CERTIFICATE - PART 3 OF 4 Buyer / Customer PG No. BN6001

(10) Gauge Sength 4D.

Finals Statistics (Fiction) Limited.

Fine Reifing Livery ion.

OP. Finald May: 1854.x: 12000 UPURA.

TIV. 1991.1962.222371.41.

Fix. 1991.1962.222371.41.

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ENGINEERS OF BUILDING

Signer Aroll Makes Oate: 25 June 20(8 (1)

I.S.

REV. B 08.03.03 DATE SHEET 1 OF 09.07.15 DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. P COPYRIGHT © 2008 BY DART AEROSPACE LTD

INITIATION OF THE PROOF TH AJS Cb 704/316 ROUND BAR B REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 08-020A DESCRIPTION DESIGN A STATE OF STA A NEW ISSUE REV.

SPECIFICATION CONTROL DRAWING

0

SPECIFICATION:

8

PURCHASE MATERIAL: AISI (304)316 SS ROUND BAR (NOTE-AISI 303 NOT ACCEPTABLE)

ASTM A276

PART NUMBER:

M304R D.DDD

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M304R0.750

U

0

MATERIAL:				PO / BATCH	NO.: <u>fooy/</u>	981/5/1801		
MATERIAL CERT REC'D: Yes			THIC	KNESS ORDE	RED: 0-37	54		
QUANTITY RECEIVED: 125+		THICKNESS ORDERED: 0.375" THICKNESS RECEIVED: 0.375"						
QUANTITY INSPECTED: / 2ft		***************************************						
			SHEET SIZE ORDERED: SHEET SIZE RECEIVED:					
QUANTITY REJECTED:			SHE	ET SIZE RECEI	VED:			
DESCRIPTION	NCR (Chec Y/N)	k		COMMENT	S			
SURFACE DAMAGE	Y	\mathcal{Q}						
CORRECT FINISH	10							
CORROSION	Y (1							
CORRECT GRAIN DIRECTION	1					15/11		
CORRECT MATERIAL PER M-DRAWING	1	1440	A276					
CORRECT THICKNESS	Q I				10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -			
PHOTO REQUIRED	Y		. 6 . 10 . 10					
CORRECT REF # TO LINK CERT	(V)		1802 AR47	96				
CORRECT MATERIAL IDENTFICATION	-							
CORRECT M# ON THE MATERIAL	(M) N	1						
DOES THIS MATERIAL REQUIRE								
ENGINEERING SIGN OFF	Y	9						
DOES THIS REQUIRE AN EXTRUSION REPORT	Y 6	9						
CUT SAMPLE PIECE	E OF M	ATERIAL A	ULTS BELOV	V				
TVDE OF MATERIAL	-	HRC	HRB	DUR A	DUR D	WEBSTER		
TYPE OF MATERIAL	_							
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READII			9 11000					
HARDNESS / DURUMETER READII		ra leasted in	the Quality Offic					
	teste	ns located in	the Quanty Ome	<u>.ec</u>				
QC 18 INSPECTION				ENGINEER	ING SIGNOF	F (if required)		
INSPECTED BY:			SIG	NED OFF BY:				
DATE: 18/10/01			· · · · · · · · · · · · · · · · · · ·	DATE:				

North American Stainless Canada Inc. 740 Imperial Road North Guelph, ON NIKIZ3 Canada MAS

Mail To:

Certificate: 419932

007060 001

Customer:

TEST METALLURGICAL

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

REPORT

214108

Ship To

11

Page:

6/14/2018

Steel: 303

Date:

Finish: CD

Corrosion:

Treat Code: 47,254

Hoat

NAS Order: PN 0093987 01

Round Bar, Annealed, Cold Draw UNS 30300, ASTM ASE2/12 EN 10204 3.1, ASTM A484/16 AMS 5640V TYPE 1, QQS-764B CONDITION A SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b

DESCRIPTION:

Your Order: C114497

PRODUCT

REMARKS:

1011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE

'n 'dsa free from mercury and low melting alloy contamination

Wark Pieces Commodity Code -- Length----144.00 1,126 Weight Size .7500 Skid # Diameter Product Id BJ5704 1

AWAB, ISO/IEC 17025, Certificate# 12323 CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) m ANALYSIS CHEMICAL MAS Heat

Z .258 MO % DOM % .29 % Cd % 17.14 ð 12 54 800 æ SI .3180 .029 × C) ð 20

819E

Der ASTM A751/14a

Chamical Analysis

030

8.54 H

041

×

OPERTIES K 4 MECHANICAL

Product 1d

BJ5704 1

KSI SID .2rs KSI No. 2 H 0 U

38.99 80 2 108.57 83.78 171.0 4 ×

Elng % 4D

25.44

NA9 hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Mgr. Technical

KRIS LARK

6/14/2018

2010-02-02

REV. B SHEET 1 OF 1 01.12.20 10.01.05 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M303R
REV 303 ROUND BAR
CONVIDENCE AND STATE ARROPANCE LTD
CONVIDENCE ARROPA 8 6 CP B REFORMAT DWG, ADD SPECS (ZN D8-1), REF PAR 08-20A A NEW ISSUE
REV.
DESIGN
DESIGN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DE APPR.
DE APPR.
DATE 10.01.05

SPECIFICATION CONTROL DRAWING

0

PURCHASE MATERIAL: AIS (303 BS ROUND BAR (NOTE AIS) 304/316 NOT ACCEPTABLE)

(ASTM A582) SPECIFICATION:

PART NUMBER:

M303RID.DDD DIA.

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M303R0.750

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MATERIAL: <u>M303</u> DATE: <u>/8//0</u> /	RO."	750		_		PO / BATCH	NO.: <u>(°0041)</u>	051/5115012
MATERIAL CERT REC'D: Hes QUANTITY RECEIVED: 12 St QUANTITY INSPECTED: 12 St QUANTITY REJECTED: 12 St				- - -	THIC	KNESS ORDEI KNESS RECEI ¹ ET SIZE ORDEI ET SIZE RECEI ¹	VED: 0.7	50"
DESCRIPTION	(Ch	CR neck (N)				COMMENT	S	
SURFACE DAMAGE		I(N)						
CORRECT FINISH	D	N				(80-1		
CORROSION	Y	(N)						
CORRECT GRAIN DIRECTION	(Y)	N						
CORRECT MATERIAL PER M-DRAWING	Ø	N	ASIN	1 4582				
CORRECT THICKNESS	V	N						
PHOTO REQUIRED	Υ	N		0				
CORRECT REF # TO LINK CERT	(Y)	N	MT:	819E				
CORRECT MATERIAL IDENTFICATION	1/	N						
CORRECT M# ON THE MATERIAL	(8)	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(Z)						
DOES THIS REQUIRE AN		6						
EXTRUSION REPORT	Υ	(N)						
CUT SAMPLE PIECE				AND PRE			SS CHECK.	
			HRC	HR	В	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READII								
	<u>te</u>	esters	located ii	n the Quali	ty Offic	<u>e</u>		
QC 18 INSPECTION						ENGINEER	RING SIGNOF	F (if required)
INSPECTED BY: M DATE: 18/10/01					SIGN	NED OFF BY:		
DATE: /8 //0/01						DATE:		
7,7,7,0,01							45 455	